

NIGHT VISION DEVICES

MAINTENANCE SYLLABUS

NAME _____

**U.S. DEPARTMENT OF TRANSPORTATION
U.S. Coast Guard ATTC**

A553S1

**AN/AVS-6 and M915A/PVS-5
NIGHT VISION GOGGLES SYLLABUS
FOREWORD**

This is a composite AN/AVS-6 and M915A/PVS-5 Night Vision Goggle syllabus developed by the Non-Resident Training Branch at USCG ATTC Elizabeth City, North Carolina.

The night vision goggles syllabus provides you with the necessary steps to qualify you in the use, testing, and repair of the AN/AVS-6 and M915A/PVS-5 NVGs. This syllabus is divided into two parts, part I is the AVS-6 Maintenance syllabus and part II is the M915A or PVS-5 syllabus checklist.

Any questions or comments regarding this syllabus should be addressed to the "AT Subject Matter Specialist at the Non-Resident Training Branch at ATTC, (919) 335-6418.

You must be supervised by a qualified Night Vision Goggle Maintenance instructor as you complete this syllabus. To indicate that an item has been Practiced, the instructor will initial the corresponding block and once you have completed the practice maintenance you will be tested by the instructor. At the completion of each maintenance task the instructor will sign the corresponding block. Once all tasks are completed and the syllabus is completely signed off turn in the syllabus to Training to be put in your training jacket along with a letter signed by the instructor stating you have completed the NVG maintenance syllabus and are qualified to perform maintenance on the applicable NVG.

The grade received for each task is based upon your proficiency in accomplishing that task relative to the Coast Guard's "Standard" performance. The "Standard" or ability to perform the task does not change with the designation held or being sought.

COMMENTS SECTION

a. Purpose: The comments are intended to provide an accurate, fair, complete, and consistent summary of each training session. Comments are mandatory, and should provide sufficient detail to be useful to the student and other instructors.

b. Areas addressed:

- (1) The specific task performance evaluation (grades)
- (2) Headwork/judgment
- (3) Systems knowledge
- (4) Procedural knowledge
- (5) Motor skills
- (6) Attitude, professionalism, motivation
- (7) Recommendations to the student (techniques, areas to study, etc.)
- (8) Recommendations for additional training or syllabus reduction due to superior performance

Creation: August 1993

Students Name

**AN/AVS-6 and M915A/PVS-5
NIGHT VISION GOGGLES SYLLABUS
INTRODUCTION**

The AN/AVS-6 and M915A/PVS-5 syllabus provides a series of training steps to help the student become qualified on the use, testing and maintenance of the AN/AVS-6 and M915A Night Vision Goggles.

After completing the AN/AVS-6 and M915A/PVS-5 syllabus, the student will be able to safely and correctly:

1. Inspect the System.
2. Test and Repair the System.
3. Enroll/Suspend NVD from ACMS.
4. Prepare the NVD for Warranty Action.

AN/AVS-6 and M915A/PVS-5 NIGHT VISION GOGGLES SYLLABUS

PART I

Student will accomplish the following tasks under the guidance of an instructor. The task will be practiced in the presence of an instructor. Once you have practiced all the tasks and you are ready for the test, inform your instructor.

I.

- | A. Inspect the AN/AVS-6,
given necessary equipment
manuals and MPC 650.5 | Practice | Test |
|---|----------------------|----------------------|
| 1. Identify and inspect the
major assemblies | <input type="text"/> | <input type="text"/> |
| Shipping/Storage Case
Binocular Carrying Case
Binocular Assembly
SPH-4 Visor and Helmet mount
Power Pack
Monocular Housing
Pivot Adjustment Shelf
Eyepiece Lens
Diopter Adjustment
Objective Lens
Objective Focus Rings | | |
| 2. Perform a Pre-Operational
check using MTC 650.0 | <input type="text"/> | <input type="text"/> |
| 3. Operate the NVG using
operators manual,
T.O. 12S10-2AVS6-1
demonstrating proper
safety precautions | <input type="text"/> | <input type="text"/> |

- | | | |
|---|----------------------|----------------------|
| 4. Select the NVG that display unacceptable levels of: | <input type="text"/> | <input type="text"/> |
| a. Edge Glow | | |
| b. Flickering | | |
| c. Bright Spots | | |
| d. Dark Spots | | |
| e. Shading | | |
| f. Distortion | | |
| 5. Perform a Resolution test on AVS-6 using MPC 650.5 and MTC 650.0 | <input type="text"/> | <input type="text"/> |
| a. High Light | | |
| b. Low Light | | |
| 6. Purge the AVS-6 using the purge kit and MTC 650.0 | <input type="text"/> | <input type="text"/> |
| B. Repair the AN/AVS-6 and Return to RFI | Practice | Test |
| 1. Replace the Binocular Assembly | <input type="text"/> | <input type="text"/> |
| a. Operational Check | | |
| b. Zero Diopter Adjust | | |
| c. Purge | | |
| 2. Replace the Eyepiece Assembly | <input type="text"/> | <input type="text"/> |
| a. Operational Check | | |
| b. Zero Diopter Adjust | | |
| c. Purge | | |
| 3. Replace the Objective Lens Assembly | <input type="text"/> | <input type="text"/> |
| a. Operational Check | | |
| b. Purge | | |

4.	Replace the Tube/ Monocular Housing or Pivot adjustment shelf	<input type="text"/>	<input type="text"/>
	a. Operational Check		
	b. Zero Diopter Adjust		
	c. Purge		
5.	Troubleshoot the AN/AVS-6 to the defective component	<input type="text"/>	<input type="text"/>
C.	Enroll/Suspend NVD from ACMS	Practice	Test
1.	Given AN/AVS-6 determine if they are enrolled in ACMS	<input type="text"/>	<input type="text"/>
2.	Enroll the AN/AVS-6 into ACMS using MPC 650.0	<input type="text"/>	<input type="text"/>
3.	Remove/suspend AN/AVS-6 from ACMS using using MPC 652.0	<input type="text"/>	<input type="text"/>
4.	Prepare the AN/AVS-6 for warranty action IAW ILSP	<input type="text"/>	<input type="text"/>

AN/AVS-6 and M915A/PVS-5 NIGHT VISION GOGGLES SYLLABUS

PART II

Student will accomplish the following tasks under the guidance of an instructor. The task will be practiced in the presence of an instructor. Once you have practiced all the tasks and you are ready for the test, inform your instructor.

I.

A. Inspect the M915A given necessary equipment manuals and MPC 650.5	Practice	Test
1. Identify and inspect the major assemblies	<input type="text"/>	<input type="text"/>
Binocular Carrying Case Binocular Assembly Facemask Assembly Batteries Tilt Eye Relief Clamp/Knob Head Strap Objective Lens Objective Lens Focus Rings Eyepiece Lens Diopter Adjustment Ring Lever Clamp On/Off/IR Knob		
2. Perform a Pre-Operational check using MTC 650.0	<input type="text"/>	<input type="text"/>
3. Operate the NVG using operators manual T.O. 12S10-2PVS5-1 demonstrating proper safety precautions	<input type="text"/>	<input type="text"/>

- | | | |
|--|----------------------|----------------------|
| <p>4. Select the NVG that display unacceptable levels of:</p> <ul style="list-style-type: none"> a. Edge Glow b. Flickering c. Bright Spots d. Dark Spots e. Shading f. Distortion | <input type="text"/> | <input type="text"/> |
| <p>5. Perform a Resolution test on M915A using MPC 650.5 and MTC 650.0</p> <ul style="list-style-type: none"> a. High Light b. Low Light | <input type="text"/> | <input type="text"/> |
| <p>6. Purge the M915A using the purge kit and MTC 650.0</p> | <input type="text"/> | <input type="text"/> |
| <p>B. Repair the AN/AVS-6 and Return to RFI</p> | <p>Practice</p> | <p>Test</p> |
| <p>1. Replace the Binocular Assembly/Facemask</p> <ul style="list-style-type: none"> a. Operational Check b. Purge | <input type="text"/> | <input type="text"/> |
| <p>2. Replace the Eyepiece Assembly</p> <ul style="list-style-type: none"> a. Operational Check b. Zero Diopter Adjust c. Purge | <input type="text"/> | <input type="text"/> |
| <p>3. Replace the Objective Lens Assembly</p> <ul style="list-style-type: none"> a. Operational Check b. Purge | <input type="text"/> | <input type="text"/> |

4.	Replace the Image Intensifier Tube	<input type="text"/>	<input type="text"/>
	a. Operational Check		
	b. Zero Diopter Adjust		
	c. Purge		
5.	Troubleshoot the M915A to the defective component	<input type="text"/>	<input type="text"/>
C.	Enroll/Suspend NVD from ACMS	Practice	Test
1.	Given M915A determine if they are enrolled in ACMS	<input type="text"/>	<input type="text"/>
2.	Enroll the M915A into ACMS using MPC 650.0	<input type="text"/>	<input type="text"/>
3.	Remove/suspend M915A from ACMS using using MPC 652.0	<input type="text"/>	<input type="text"/>
4.	Prepare the M915A for warranty action IAW ILSP	<input type="text"/>	<input type="text"/>